

Patent Abstracts of Japan

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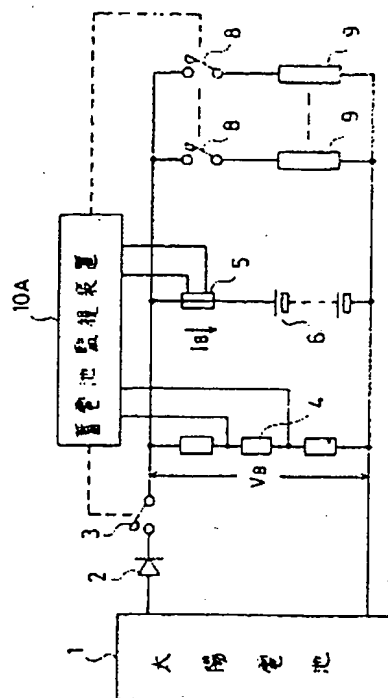
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TITLE : STORAGE BATTERY MONITORING
DEVICE



ABSTRACT : PURPOSE: To reduce an error between the actual retaining amount of electricity and the operated amount of the same by a method wherein the amount of retaining electricity of a storage battery is operated based on a charging efficiency, operated based on the measured voltage of the storage battery, and the measured charging current of the same.

CONSTITUTION: A storage battery 6 is charged by the fluctuating output of a solar battery 1 through a reverse current precluding diode 2 and a switch 3 while the storage battery 6 supplies electric power to a plurality of loads 9 through switches 8. A storage battery monitoring device 10A measures the fluctuating output voltage V_B by a voltage divider 4 at all times and obtains the charging and discharging current I_B of the battery by the voltage divider 5. The storage battery monitoring device 10 opens and/or closes a power source switch 3 and the load switches 8 in accordance with the output of the solar battery. Further, the storage battery monitoring device 10 changes a charging efficiency based on a measured voltage through a CPU and a memory, accommodated therein, and operates the amount of retaining electricity based on the measured charging and discharging current and the charging efficiency to control the switches 3, 8. According to this method, an error between the actual amount of retaining electricity and the operated amount of retaining electricity may be reduced.

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